

TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-240-410-4

Query Match 44.7%; Score 948.5; DB 4; Length 215;
 Best Local Similarity 85.2%; Pred. No. 3; 3e-92; Db 6; Mismatches 23; Indels 3; Gaps 3; Matches 184; Conservative 6; MisMatches 23; Indels 3; Gaps 3;

QY 60 QGDHVDFSQEPPTVLFHEPGSFSWVGGGKVVHNFPEGKNAVRTVNGSTKGSCQD 119
 Db 1 GQDRYDFGQEPPTVLFHEPGSFSWVGGGKVVHNFPEGKNAVRTVNGSTKGSCLD 60

QY 120 KQDCGNVITLERRGNGLVCVGTNARKPSCWNLVNDVMSVMSLGENKGYAFSPDEN-SLV 178
 Db 61 KRDCEWVITLERRGNGLACQTNARHPSAWNLVN-ALWCHLGESEGGYAFSPDEN-PWF 119

QY 179 LFEGDEVSYSTK-QEYNGKTPRERRIGSELYNSDTVMQNPQIKATVHQDAYDK 237
 Db 120 CFEDEVSYSTK-KARNYWNEDPRFRRIGSELYNSDTVMQNPQIKATVHQDAYDK 179

QY 238 IYFREDNDPKNPAPLNSRVALCRLGPOGEES 273
 Db 180 IYFREDNDPKNPAPLNSRVALCRLGPOGEES 215

RESULT 4
 US-09-041-236-4
 Sequence 4, Application US/09041236
 ; Patent No. 6225285
 ; GENERAL INFORMATION:
 ; APPLICANT: Luo, Yuling
 ; APPLICANT: Xionei, Xu
 ; TITLE OF INVENTION: Semaphorin K1
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
 ; STREET: 75 DENISE DRIVE
 ; CITY: HILLSBOROUGH
 ; STATE: CALIFORNIA
 ; COUNTRY: USA
 ; ZIP: 94010
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/041,236
 FILING DATE: March 11, 1998
 CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:
 NAME: OSMAN, RICHARD A.
 REGISTRATION NUMBER: 36,627
 REFERENCE/DOCKET NUMBER: REBL98-001

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650) 343-4341
 TELEFAX: (650) 343-4342

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
 LENGTH: 606 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-041-236-4

Query Match 42.5%; Score 902; DB 4; Length 606;
 Best Local Similarity 48.9%; Pred. No. 1.5e-86; Db 6; Mismatches 179; Conservative 54; MisMatches 127; Indels 6; Gaps 4; Matches 179; Conservative 54; Mismatches 127; Indels 6; Gaps 4;

QY 27 LPLRLRLVWVWAASAQGHRSRPRISAWK--GODHVDFSQEPPTVLFHEPGSFS 83
 Db 4 LCVSIRLML-SATTAKSRSFIDKRLVWLTGSGQ-HRFGQEPPTVLFHSNNSD 61

QY 84 VWGGRGKVVHNFPEGKNAVRTVNGSTKGSCODQCGNYTLLERGNGLVCVGTN 143
 Db 62 WVGGINNTIVLFDFAHSSNASTALINTSTHNTLSSCENFTLHLHNOTDGLACGN 121

QY 144 ARKPSCWNLNDVSVMMSGMKGYAFSPDEN-SLV 178
 Db 122 SQKPSCLNLNTQFLGPKLGLAPFSSGNLVLFQNDTYSTINLYKSLGKFR 180

QY 204 IRGESLYTSVTMONPQIKATVHQDAYDKYFREDNPDKNPAPLNSRVAL 190
 Db 241 CSSDQGGESELLSVKRTTFLKARLACVDDYTGRIYNEQDFIWOAPENSWEETLYGLF 300

QY 324 SNPWNNTAVCVYSLGIDRVRTSSLGKGYHNGLSPRPGMCLPKKOPITPEVADSPH 383
 Db 301 LSPWNFSAVCVFTVKDIDHVFTSKLKNYHKLPTPRGOCMKNHOPVPTFOVADRYP 360

QY 384 EVAQRY 389
 Db 361 EVADPV 366

RESULT 5
 US-08-121-713D-54
 Sequence 54, Application US/08121713D
 ; Patent No. 5639856
 ; GENERAL INFORMATION:
 ; APPLICANT: Goodman, Corey S.
 ; APPLICANT: Kolodkin, Alex L.
 ; APPLICANT: Matthes, David
 ; APPLICANT: Bentley, David R.
 ; APPLICANT: O'Connor, Timothy
 ; TITLE OF INVENTION: The Semaphorin Gene Family
 ; NUMBER OF SEQUENCES: 100
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
 ; STREET: 268 Bush Street, suite 3200
 ; CITY: San Francisco
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94104
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/121,713D
 FILING DATE: 13 SEP-1993
 CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:
 NAME: Osman, Richard A.
 REGISTRATION NUMBER: 36,627
 REFERENCE/DOCKET NUMBER: B94-002-1

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 343-4341
 TELEFAX: (415) 343-4342

INFORMATION FOR SEQ ID NO: 54:

SEQUENCE CHARACTERISTICS:
 LENGTH: 771 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-121-713D-54

Query Match 17.1%; Score 363; DB 1; Length 771;
 Best Local Similarity 28.0%; Pred. No. 2.4e-26; Db 1; Mismatches 119; Conservative 66; MisMatches 162; Indels 78; Gaps 19; Matches 119; Conservative 66; Mismatches 162; Indels 78; Gaps 19;

APPLICATION NUMBER: US/08/121,713
FILING DATE: 13-SEP-1993

ATTORNEY/AGENT INFORMATION:
NAME: Osman, Richard A.

REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: B94-002-1

TELECOMMUNICATION INFORMATION:
TELEPHONE: (415)343-4341
TELEFAX: (415) 343-4342

TELEX: 54:

SEQUENCE CHARACTERISTICS:
LENGTH: 771 amino acids
TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein
US-09-060-692-54

Query Match 17.1%; Score 363; DB 2; Length 771;
Best Local Similarity 28.0%; Pred. No. 2.4e-29;
Matches 119; Conservative 66; Mismatches 162; Indels 78; Gaps 19;

Qy 32 RLLVFWVAASAAQGHRSRG---PRISAVK---GODHDF---SOPEPHTVFLHEP 79
Db 6 RIVCLEFWGLVLTARANYQONGNNVNPRLKSKMLESNNVITFNGILANSYYHTLDEE 65

Qy 80 GSFSVWVGGRGVYHNFPEGKNASVRTVNIGSTKGSCDK-----ODCGNYITLL 130
Db 66 RS-RLVVGAKDHIFSDLVNIKDFQKIVWPVSYTR---RDECKWAGKDILKECANFIKV 121

Qy 131 ER-RGNGLLVGTGNARKPSC-----WNLVNDSVMSLGEKGYAPFSDENS 176
Db 122 KAYNQTHLYACGTGAFPHPICTYIEIGHHPEDNIFKLENS---HFENGRGKSPYDPKL 177

Qy 177 LVLFEGDEVYSTIRKOEYNGKIPRERRIRGSELEYI---SDTMQNPQFIKATIHQ-DQ 232
Db 178 ASLLIDGELYSGTAADFMRGFAIFTLGHHPHPIREQHSSRLNDPKFSAHLISEDN 237

Qy 233 AYDDKLYYFFREDNPDKNPNEAPLNNSRVAQOLRGDGGESELLSVSKWNTFLKAMLYCSDA 292

Db 238 PEDDKVYFFRENADGEHSGSKATHARIGQICKNDFGHRSL-VNKWTTFLKARLICSV 296

Qy 293 ATN---RNENRQLQDVFL---PDPSGQWDRDTIVYGVF---S宛PNYSAVCVYSLGIDDRV 344
Db 297 GPNGIDTHFDELQDVFLMNFKDP---KNPVVYGVFTSSNIFKGSACVMSMSDVRVF 352

Qy 345 -----RSSLKQYHMGLSNPRPGMCLKK-----QPIPETFQVADSHREVAQ 387
Db 353 LGPYAHRDGPNTQWVQPYQGRVYPRPGTC-PSKTFGGFDSTKDLPPDVITFARSHAMYN 411

Qy 388 RVEPM 392
Db 412 PVFPM 416

RESULT 8

US-08-833-391-54
; Sequence 54, Application US/08833391
; Patent No. 6013781
; GENERAL INFORMATION:
; APPLICANT: Goodman, Corey S.
; APPLICANT: Kolodkin, Alex L.
; APPLICANT: Mattes, David
; APPLICANT: Bentley, David R.
; APPLICANT: O'Conor, Timothy
; TITLE OF INVENTION: The Semaphorin Gene Family
; NUMBER OF SEQUENCES: 100
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
; STREET: 268 Bush Street, Suite 3200
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA

ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/833,391
FILING DATE: 13-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Osman, Richard A.

REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: B94-002-1

TELECOMMUNICATION INFORMATION:
TELEPHONE: (415)343-4341
TELEFAX: (415) 343-4342

TELEX: 54:

SEQUENCE CHARACTERISTICS:
LENGTH: 771 amino acids
TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-833-391-54

Query Match 17.1%; Score 363; DB 3; Length 771;
Best Local Similarity 28.0%; Pred. No. 2.4e-29;
Matches 119; Conservative 66; Mismatches 162; Indels 78; Gaps 19;

Qy 32 RLLVFWVAASAAQGHRSRG---PRISAVK---GODHDF---SOPEPHTVFLHEP 79
Db 6 RIVCLEFWGLVLTARANYQONGNNVNPRLKSKMLESNNVITFNGILANSYYHTLDEE 65

Qy 80 GSFSVWVGGRGVYHNFPEGKNASVRTVNIGSTKGSCDK-----ODCGNYITLL 130
Db 66 RS-RLVVGAKDHIFSDLVNIKDFQKIVWPVSYTR---RDECKWAGKDILKECANFIKV 121

Qy 131 ER-RGNGLLVGTGNARKPSC-----WNLVNDSVMSLGEKGYAPFSDENS 176
Db 122 KAYNQTHLYACGTGAFPHPICTYIEIGHHPEDNIFKLENS---HFENGRGKSPYDPKL 177

Qy 177 LVLFEGDEVYSTIRKOEYNGKIPRERRIRGSELEYI---SDTMQNPQFIKATIHQ-DQ 232
Db 178 ASLLIDGELYSGTAADFMRGFAIFTLGHHPHPIREQHSSRLNDPKFSAHLISEDN 237

Qy 233 AYDDKLYYFFREDNPDKNPNEAPLNNSRVAQOLRGDGGESELLSVSKWNTFLKAMLYCSDA 292

Db 238 PEDDKVYFFRENADGEHSGSKATHARIGQICKNDFGHRSL-VNKWTTFLKARLICSV 296

Qy 293 ATN---RNENRQLQDVFL---PDPSGQWDRDTIVYGVF---S宛PNYSAVCVYSLGIDDRV 344
Db 297 GPNGIDTHFDELQDVFLMNFKDP---KNPVVYGVFTSSNIFKGSACVMSMSDVRVF 352

Qy 345 -----RSSLKQYHMGLSNPRPGMCLKK-----QPIPETFQVADSHREVAQ 387
Db 353 LGPYAHRDGPNTQWVQPYQGRVYPRPGTC-PSKTFGGFDSTKDLPPDVITFARSHAMYN 411

Qy 388 RVEPM 392
Db 412 PVFPM 416

RESULT 9

US-09-060-610-54
; Sequence 54, Application US/09060610
; Patent No. 634544
; GENERAL INFORMATION:
; APPLICANT: Goodman, Corey S.
; APPLICANT: Kolodkin, Alex L.

Db 353 LGPYAHRDPNQWVYQGRVYPPRGTC-PSKTFGGFDSTKDDFLDDVITPARSHPMVN 411
 Qy 388 RVEPM 392
 Db 412 PVFPM 416

RESULT 11
 US-09-181-706-8
 ; Sequence 8, Application US/09181706
 ; GENERAL INFORMATION:
 ; APPLICANT: Melanie K. Spriggs, Michael R. Comeau,
 ; APPLICANT: Robert F. Dubose, Richard S. Johnson
 ; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN
 ; TITLE OF INVENTION: RECEPTOR DNA AND POLYPEPTIDES
 ; NUMBER OF SEQUENCES: 10
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Janis C. Henry
 ; STREET: 51 University St.
 ; CITY: Seattle
 ; STATE: WA
 ; COUNTRY: US
 ; ZIP: 98101
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30

APPLICATION NUMBER: US/09/181,706
 FILING DATE: October 28, 1998
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/958,598 (converted to a
 FILING DATE: October 28, 1997
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: --to be assigned-- (USSN 08/958,598
 APPLICATION NUMBER: conversion to Provisional application)
 FILING DATE: October 26, 1998
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Henry, Janis C
 REGISTRATION NUMBER: 34,347
 REFERENCE/DOCKET NUMBER: 2631-A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)470-4189
 TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 660 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 ; US-09-181-706-8

Query Match 16.3%; Score 346; DB 4; Length 660;
 Best Local Similarity 30.9%; Pred. No. 1.2e-27; Indels 40; Gaps 13;
 Matches 97; Conservative 49; Mismatches 128; Gaps 13;

Qy 84 VVNGGRGVVHFNFPGKNAASVRTVNIGSTKGSCQDKQDCGNYTTLERRNGNLLVCGTN 143
 Db 297 LYTGNGAVVTFSSNNELNKLTNN-----NYIT-TSIKVEDTLVCGTN 340

Qy 144 ARKPSQWNLVNDVWMSLGENKGYAFSPDENS-LVLFSCDEVSTIRKQEVNGKIPRF 201
 Db 341 NGNPKCKWIKDGEDSPKYRG--RGYARY--ONSKVTTISHNECVLSDINTSKREG--IKRW 393

Qy 202 RRIGES--ELYTSDVMQNQFIKATIVHQDQADKIIYFFREDNPDKNPEAPLNVR 259
 Db 394 RRFDGPGCGYDLYTADNVIPK-DGVRGAFVFDKRGTY-DKVVYILFTDIDTKR--IVKIPY 448

RESULT 12
 US-09-458-791-8
 ; Sequence 8, Application US/09458791
 ; GENERAL INFORMATION:
 ; APPLICANT: Spriggs, Melanie
 ; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN
 ; NUMBER OF SEQUENCES: 10
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Janis C. Henry
 ; STREET: 51 University St.
 ; CITY: Seattle
 ; STATE: WA
 ; COUNTRY: US
 ; ZIP: 98101
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: MS DOS/Windows 95
 ; SOFTWARE: Word For Windows 95, 7.0a

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/458,791
 FILING DATE: 10-Dec-1999
 CLASSIFICATION: <Unknown>
 PRIORITY APPLICATION DATA:
 ATTORNEY/AGENT INFORMATION:
 NAME: Henry, Janis C
 REGISTRATION NUMBER: 34,347
 REFERENCE/DOCKET NUMBER: 2631
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)470-4189
 TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 661 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 ; US-09-458-791-8

Query Match 16.3%; Score 346; DB 4; Length 660;
 Best Local Similarity 30.9%; Pred. No. 1.2e-27; Indels 40; Gaps 13;
 Matches 97; Conservative 49; Mismatches 128; Gaps 13;

Qy 84 VVNGGRGVVHFNFPGKNAASVRTVNIGSTKGSCQDKQDCGNYTTLERRNGNLLVCGTN 143
 Db 297 LYTGNGAVVTFSSNNELNKLTNN-----NYIT-TSIKVEDTLVCGTN 340

Qy 144 ARKPSQWNLVNDVWMSLGENKGYAFSPDENS-LVLFSCDEVSTIRKQEVNGKIPRF 201
 Db 341 NGNPKCKWIKDGEDSPKYRG--RGYARY--ONSKVTTISHNECVLSDINTSKREG--IKRW 393

Qy 202 RRIGES--ELYTSDVMQNQFIKATIVHQDQADKIIYFFREDNPDKNPEAPLNVR 259
 Db 394 RRFDGPGCGYDLYTADNVIPK-DGVRGAFVFDKRGTY-DKVVYILFTDIDTKR--IVKIPY 448

RESULT 13
 US-09-459-066-8
 ; Sequence 8, Application US/09459066
 ; Patent No. 6187909
 ;
 GENERAL INFORMATION:
 ;
 APPLICANT: SPIRIGGS, Melanie
 TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN
 TITLE OF INVENTION: RECEPTOR DNA AND POLYPEPTIDES
 NUMBER OF SEQUENCES: 10
 CORRESPONDENCE ADDRESS:
 ;
 ADDRESSEE: Janis C. Henry
 STREET: 51 University St.
 CITY: Seattle
 STATE: WA
 COUNTRY: US
 ZIP: 98101
 COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: MS-DOS/Windows 95
 SOFTWARE: Word for Windows 95, 7.0a
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/459,066
 FILING DATE: 1996-01-15
 CLASSIFICATION:
 ;
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 08/958,598
 ATTORNEY/AGENT INFORMATION:
 NAME: Henry, Janis C
 REGISTRATION NUMBER: 34,347
 REFERENCE/DOCKET NUMBER: 24631
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)233-4189
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 660 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 ;
 US-09-459-066-8

Query Match 16.2%; Score 342.5; DB 4; Length 775;
 Best Local Similarity 28.3%; Pred. No. 3.5e-27;
 Matches 126; Conservative 28.3%; Mismatches 160; Indels 95; Gaps 23;
 ;
 QY 13 APRARVLSIPIAREGLPLRLRLVFWWAASADQHSGRSRPRISAWKSGDHDV---PSQ 68
 Db 2 APAGHILTL---LWGHLELWTPGHS---NPSYPRLRLSHKELLENNTSIFOS 51
 QY 69 P---EPHIVLFHFGSFSWVWGRGVVHFNFEGKMASVRTVNIGST-----KG 115
 Db 52 PLGFLDLHMLLDEYOE-RLFVGGRDLYVSLNL-ERVSIDGYREIYWRSTAVKEECIMKG 109
 QY 116 SCQPRDCGNYITLER-RNGLGLVCGTMARKSPCWNLYNDSVMSLGM----- 164
 Db 110 --KPNACANVYIRVLYHMYRTHLTCATGAFDPHC-----AFRIVGHHSERPLFHL 160
 QY 165 -----KGYAPESPDSLNSLVLFEGDDEVVSTIRKOEYNGKIPR-----RIGESELYT 212
 ;
 Db 161 HRSERGRGRGPFDPNSSFVSTLWGNELFAGLYSDYWGDSATRSMGKLGHIRTE--HD 217
 QY 213 SDTIMQNPQFQKATIVHQDQYDD-KIYFREDNPDKNPNEAPLNSVVAOLCRGDODGE 271
 ;
 Db 218 DERILKKEPKFVGSMIPNDNDDKMYFFETKALEENAHTIYTIVGRUCLVNDMGO 277
 QY 272 SLSLVSQKWNFTKAMLVESDAATN--RNFRNQDVFLL--DPSQGWRDTRYGVF--- 323
 Db 278 RIL-VNKNSTFLKARLVCSPVPGMNGIDTYFDELEDVFLPTDQ---KNPVIFGLFNT 332
 QY 324 SNPWNPNSAVCVVSIQGDIQFVER--TSSIGK--PHMGLS-----PRPGMCLPK----- 367
 ;
 Db 333 SNIFRGHAYCQVYHMSIREAFNGPYAHKGPYHWSLYEGKVYPRPGSCASKVNGGRY 392
 QY 368 -KOPIPTEPQVADSHPEVAQREPM 392
 Db 393 TTKDYPDDAIREARMHPLMVOPIKV 418

RESULT 14
 US-09-308-179B-1
 ; Sequence 1, Application US/09308179B
 ; Patent No. 6436669
 ;
 GENERAL INFORMATION:
 ;
 APPLICANT: INAGAKI, Shinobu
 TITLE OF INVENTION: NOVEL SEMAPHORIN GENES (1)
 FILE REFERENCE: 0020-4562P
 CURRENT APPLICATION NUMBER: US/09/308,179B
 CURRENT FILING DATE: 1999-05-14
 ;
 PRIORITY APPLICATION NUMBER: PCT/JP97/04111
 PRIORITY FILING DATE: 1997-11-12
 PRIORITY APPLICATION NUMBER: JAPAN 321068/1996
 PRIORITY FILING DATE: 1996-11-15
 ;
 SOFTWARE: PatentIn Ver. 2.1
 ;
 SEQ ID NO 1
 ;
 LENGTH: 775
 ;
 TYPE: PRT
 ;
 ORGANISM: Mus sp.
 ;
 US-09-308-179B-1

Query Match 16.2%; Score 342.5; DB 4; Length 775;
 Best Local Similarity 28.3%; Pred. No. 3.5e-27;
 Matches 126; Conservative 28.3%; Mismatches 160; Indels 95; Gaps 23;
 ;
 QY 13 APRARVLSIPIAREGLPLRLRLVFWWAASADQHSGRSRPRISAWKSGDHDV---PSQ 68
 Db 2 APAGHILTL---LWGHLELWTPGHS---NPSYPRLRLSHKELLENNTSIFOS 51
 QY 69 P---EPHIVLFHFGSFSWVWGRGVVHFNFEGKMASVRTVNIGST-----KG 115
 Db 52 PLGFLDLHMLLDEYOE-RLFVGGRDLYVSLNL-ERVSIDGYREIYWRSTAVKEECIMKG 109
 QY 116 SCQPRDCGNYITLER-RNGLGLVCGTMARKSPCWNLYNDSVMSLGM----- 164
 Db 110 --KPNACANVYIRVLYHMYRTHLTCATGAFDPHC-----AFRIVGHHSERPLFHL 160
 QY 165 -----KGYAPESPDSLNSLVLFEGDDEVVSTIRKOEYNGKIPR-----RIGESELYT 212
 ;
 Db 161 HRSERGRGRGPFDPNSSFVSTLWGNELFAGLYSDYWGDSATRSMGKLGHIRTE--HD 217
 QY 213 SDTIMQNPQFQKATIVHQDQYDD-KIYFREDNPDKNPNEAPLNSVVAOLCRGDODGE 271
 ;
 Db 218 DERILKKEPKFVGSMIPNDNDDKMYFFETKALEENAHTIYTIVGRUCLVNDMGO 277
 QY 272 SLSLVSQKWNFTKAMLVESDAATN--RNFRNQDVFLL--DPSQGWRDTRYGVF--- 323
 Db 278 RIL-VNKNSTFLKARLVCSPVPGMNGIDTYFDELEDVFLPTDQ---KNPVIFGLFNT 332
 QY 324 SNPWNPNSAVCVVSIQGDIQFVER--TSSIGK--PHMGLS-----PRPGMCLPK----- 367
 ;
 Db 333 SNIFRGHAYCQVYHMSIREAFNGPYAHKGPYHWSLYEGKVYPRPGSCASKVNGGRY 392
 QY 368 -KOPIPTEPQVADSHPEVAQREPM 392
 Db 393 TTKDYPDDAIREARMHPLMVOPIKV 418

RESULT 15
US-08-121-713D-56
Sequence 56, Application US/08121713D

Patent No. 5,539,856

GENERAL INFORMATION:

APPLICANT: Goodman, Corey S.
APPLICANT: Kolodkin, Alex L.
APPLICANT: Matthes, David
APPLICANT: Bentley, David R.
APPLICANT: O'Connor, Timothy
TITLE OF INVENTION: The Semaphorin Gene Family
NUMBER OF SEQUENCES: 100
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
STREET: 268 Bush Street, Suite 3200
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94104

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/121,713D
FILING DATE: 13-SEP-1993
CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:
NAME: Osman, Richard A.
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: B74-0002-1

TELECOMMUNICATION INFORMATION:
TELEPHONE: (415)343-4341
TELEFAX: (415)343-4342
TELEX:

INFORMATION FOR SEQ ID NO: 56:
SEQUENCE CHARACTERISTICS:
LENGTH: 441 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-121-713D-56

Query Match 16.1%; Score 341.5; DB 1; Length 441;
Best Local Similarity 31.1%; Pred. No. 1.8e-27; Matches 98; Conservative 51; Mismatches 127; Indels 39; Gaps 14;

Search completed: March 14, 2003, 09:28:16
Job time : 13.2925 secs

QY 84 VWWGGRGKVYHFNFPLGKKNASVRTVNIGSITKGSCDKQDGNYIL--LERRGNGLLVC 140
Db 74 LYTGVGAVYTFS---NNLNLKT--GLTN-----NNYITTSIKVEDADKDTLVC 117

QY 141 GTNARKPSCWNLVNDSVMSLIGEMKGYAPTSPPDENSLVLFGEGDEVYSTIRKQEQYNGKIPR 200
Db 118 GTNNNGNPCKMKIDGSDDPKHKG--RGYAPVQNSKVTIISHNGC-VLSDINISKEG--IKR 172

QY 201 FRRTRGES--ELYTSDTVMONPQFIKATIVHQDQAYDDKLYYFEREDNPQKNEAPLNVS 258
Db 173 WRRFDGPGCGYDLYTADNVTKR-DGLRGAFVYDKGTY-DKVYLFTDTIGSKR--IVKIP 227

QY 259 RWAQQLCRGOGGESELLSVSKWNTFKAMLYCS-DAATNRWFRNRLQDVFLIPDPSQWRT 317
Db 228 YIAQMCINDBGGPSSLHWRSLVKECDDIGRSYROI--IHSRTIKTD---NDT 280

QY 318 RVYQFNSNPNNYISAVCVYSLGIDDRYFRTSSLKGHMGLSNRPQGMCLPKKQPIPTEFQ 377
Db 281 ILYVVFDSVPSKSACTYSNTIKQSFSTSKLEGYTKQLPSPASGICLPAKGKVVPHTE 340

QY 378 VADSHPEVAQREVPM 392

Db 341 VIEKIVNVLDDIKPL 355

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